



JC10 Rec'd PCT/PTO 23 JUN 2005

Patent
Attorney Set No. 034404-001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Pierre Falson et al.

Application No.: 10/528,344

Filing Date: March 18, 2005

Title: 'SYSTEMS FOR EXPRESSING TOXIC PROTEINS, VECTORS AND METHOD OF PRODUCING
TOXIC PROTEINS

Group Art Unit:

Examiner:

Confirmation No.:

FIRST
INFORMATION DISCLOSURE STATEMENT
TRANSMITTAL LETTER

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

Enclosed is a FIRST Information Disclosure Statement and accompanying form PTO-1449 for the above-identified patent application.

- No additional fee for submission of an IDS is required.
- The fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) is also enclosed.
- A statement under 37 C.F.R. § 1.97(e) is also enclosed.
- A statement under 37 C.F.R. § 1.97(e), and the fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) are also enclosed.
- Charge _____ to Deposit Account No. 02-4800 for the fee due.
- A check in the amount of _____ is enclosed for the fee due.
- Charge _____ to credit card. Form PTO-2038 is attached.

The Director is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

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Date: Jun 23 2005

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INTELLECTUAL PROPERTY LAW

FIRST
INFORMATION DISCLOSURE STATEMENT
TRANSMITTAL LETTER

(8/04)

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FIRST INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
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Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, the accompanying information is being submitted in accordance with 37 C.F.R. §§ 1.97 and 1.98.

Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

The documents are being submitted within three (3) months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later. Since these documents are being filed within the time period set forth in 37 C.F.R. § 1.97(b), no fee or statement is required.

Five of the documents being disclosed were cited in a search report from French Application 0211676 dated June 12, 2003, a copy of which is enclosed.

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date Jun 23, 2005

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**FIRST
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

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of

JUN 23 2005

Complete if Known

Application Number	10/6344
Filing Date	March 18, 2005
First Named Inventor	Pierre Falson et al.
Examiner Name	

Attorney Docket Number 034404-001

U.S. PATENT DOCUMENTS				
Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Kind Code (if known)	Country	Date of Publication (MM-DD-YYYY)	STATUS						
					Translation	Partial Translation	Eng. Lang. Summary	Search Report	IPER	Abstract	Cited in Spec

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	Search Report from French Application 0211676 dated June 12, 2003.
	Wang, Y, et al., "A unique approach for high level expression and production of a recombinant cobra neurotoxin in <i>Escherichia coli</i> ", <i>Journal of Biotechnology</i> Vol. 94 No. 3:235-244 (2002).
	Ciccaglione, A.R., et al., "Hepatitis C Virus E1 Protein Induces Modification of Membrane Permeability in <i>E. coli</i> Cells", <i>Virology</i> 250:1-8 (1998).
	Ciccaglione, A.R., et al., "Secretion and purification of HCV E1 protein forms as glutathione-S-transferase fusion in the baculovirus insect cell system", <i>Virus Research</i> 55:157-165 (1998).
	Okamoto, H., et al., "The 5'-terminal sequence of the hepatitis C virus genome", abstract from EMBL GenBank DDBJ databases, February, 1992.
	Sarrazin, C., et al., "Quasispecies heterogeneity of the carboxyterminal part of the E2 gene including the PePHD and sensitivity of hepatitis C virus 1b isolates to antiviral therapy", abstract from EMBL GenBank DDBJ databases, July 2001.
	Christendat, D., et al., "Structural proteomics: prospects for high throughput sample preparation", <i>Progress in Biophysics & Molecular Biology</i> 73:339-345 (2000).
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	Ciccaglione, A.R., et al., "Expression and Membrane Association of Hepatitis C Virus Envelope 1 Protein", <i>Virus Genes</i> 21(3):223-226 (2000).
	Sisk, W.P., et al., "Deletion of hydrophobic domains of viral glycoproteins increases the level of their production in <i>Escherichia coli</i> ", <i>Gene</i> 112:157-162 (1992).
	Paulsen, I.T., et al., "Unified inventory of established and putative transporters encoded within the complete genome of <i>Saccharomyces cerevisiae</i> ", <i>FEBS Letters</i> 430:116-125 (1998).

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

**FIRST
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

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of 2

Complete if Known

Application Number	10/1844
Filing Date	March 18, 2005
First Named Inventor	Pierre Falson et al.
Examiner Name	
Attorney Docket Number	034404-001

JUN 23 2005

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
/	Decottignies A., et al., "Complete inventory of the yeast ABC proteins", <i>nature genetics</i> 15:137-145 (1997).
/	Arechaga, I., "Characterization of new intracellular membranes in <i>Escherichia coli</i> accompanying large scale over-production of the b subunit of F ₁ F ₀ ATP synthase", <i>FEBS Letters</i> 482:215-219 (2000)
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/	Mayo, M.A. and Pringle, C.R., "Virus Taxonomy", <i>Journal of General Virology</i> 79:649-657 (1998).
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/	De Beeck, A.O., et al., "Biogenesis of hepatitis C virus envelope glycoproteins", <i>Journal of General Virology</i> 82:2589-2595 (2001).
/	Sharp, P.M., et al., "Codon usage patterns <i>Escherichia coli</i> , <i>Bacillus subtilis</i> , <i>Saccharomyces cerevisiae</i> , <i>Schizosaccharomyces pombe</i> , <i>Drosophila melanogaster</i> and <i>Homo sapiens</i> ; a review of the considerable within-species diversity" <i>Nucleic Acids Research</i> 16(17):8207-8211 (1988).
/	Mullis, K.B. and Faloona, F.A., "Specific Synthesis of DNA in Vitro via a Polymerase-Catalyzed Chain Reaction", <i>Methods in Enzymology</i> 155:335-350 (1987).
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/	Hakes, D.J. and Dixon, J.E., "New Vectors for High Level Expression of Recombinant Proteins in Bacteria", <i>Analytical Biochemistry</i> 202:293-298 (1992).
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/	Laemmli, U.K., "Cleavage of Structural Proteins during the Assembly of the Head of Bacteriophage T4", <i>Nature</i> 227:680-685 (1970).
/	Sambrook, et al., "Expression of Cloned Genes in <i>Escherichia coli</i> ", Chapter 17, A laboratory manual, second edition, Cold Spring Harbor Laboratory Press (1989).
/	"Detection and Analysis of Proteins Expressed from Cloned Genes", Chapter 18, A laboratory manual, second edition, Cold Spring Harbor Laboratory Press (1989).

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